

Aging of polystyrene materials. ...

S/191/62/000/011/001/019
B101/B186

propoxy and butoxy homologs, was to make $[\eta]$ decrease not by 62.3% but only by 20-24%. The protective effect increased with increasing concentration of these compounds. The compounds mentioned, doubled the resistance to UV-aging of SN-10 and SN-28, also under atmospheric effects, both in regions of a dry and hot climate with total solar radiation, $Q = 48 \text{ cal/cm}^2 \cdot \text{min}$, at $12.7-25.8^\circ\text{C}$, and in regions of a moderate, moist climate with $Q = 37.2 \text{ cal/cm}^2 \cdot \text{min}$, at $4.1-16.9^\circ\text{C}$. There are 7 figures and 2 tables. ✓

Card 3/3

KIRILLOVA, E.I.; MATVEYEVA, Ye.N.; GLAGOLEVA, Yu.A.; FRATKINA, G.P.;
USMANOVA, N.F.

Aging of polystyrene plastics. Thermal stability of poly-
styrene polymers. Plast. massy no.11:3-6 '63. (MIRA 16:12)

ACCESSION NR: AP4018158

S/0191/64/000/003/0010/0013

AUTHORS: Kirillova, E.I.; Matveyeva, Ye.N.; Leytman, K.A.; Fratkina, G.P.

TITLE: Relative light stability of polystyrene polymers

SOURCE: Plasticheskiye massy*, no.3, 1964, 10-13

TOPIC TAGS: polystyrene, light stability, styrene acenaphthylene copolymer, styrene methylstyrene copolymer, styrene vinylnaphthalene copolymer, polymonochlorostyrene, polydichlorostyrene, oxidation intensity, copolymer film oxidation, photodecomposition, photopolymerization

ABSTRACT: The photodecomposition of styrene copolymers with acenaphthylene, alpha-methylstyrene, beta-vinylnaphthalene, polymonochlorostyrene and polydichlorostyrene was investigated. The stability of the following polymers against destruction at 27C occurred in the following decreasing order: styrene-beta-vinylnaphthalene copolymer, styrene-alpha-methylstyrene copolymer, polystyrene, styrene-acenaphthylene copolymer, polydichlorostyrene, and polymonochlorostyrene, the least stable. Polydichlorostyrene, the styrene-acenaphthylene and the styrene-alphamethylstyrene copolymers do not polymerize further on

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ACCESSION NR: AP4018158

photo-aging. Polymerization does play a basic role in the photo-aging of styrene-beta-vinylnaphthalene copolymer and of polymonochlorostyrene. The intensity of oxidation of these polymers, as determined by the formation of the carbinol absorption band at 1720 cm^{-1} in the IR spectra, increases rapidly in the first 25 hours with temperature increase from 27 to 620; thereafter the oxidation increases less noticeably, but after 200 hours it is still somewhat higher at the higher temperature. The intensity of the following polymers to oxidation at 620 decreases in the following order: styrene-acenaphthylene copolymer, styrene-beta-vinylnaphthalene copolymer, polymonochlorostyrene, styrene-alpha-methylstyrene copolymer and polydichlorostyrene, the most stable. Styrene copolymer films are oxidized on the surface only to a thickness of about 20 microns. Orig. art. has: 8 figures, 1 table and 2 formulas

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: PH, MA

NR REF SOV: 002

OTHER: 004

Card 2/2

L 2272-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) VW/RM

ACCESSION NR: AP5022228

UR/0191/65/000/009/0055/0059

678.746.019.391.01:543.42

AUTHOR: Fratkina, G. P.; Kirillova, E. I.; Giagoleva, Yu. A.; Leytman, K. A.

TITLE: Study of the thermal and light aging of certain polystyrene plastics by means of infrared spectroscopy

SOURCE: Plasticheskiye massy, no. 9, 1965, 55-59

TOPIC TAGS: polystyrene, light aging, thermal aging

ABSTRACT: The aging of polyvinyltoluene and impact-resistant block polystyrene was studied on films 50-100 μ thick. Infrared spectra of the decomposition products were used for their identification. A comparison of the thermal and light aging of the two compounds studied, which differ in the presence of one CH_3 group at the para position in the benzene ring of polyvinyltoluene, points up a marked difference in their behavior: (1) during the aging of polystyrene, the main process taking place is the destruction of the chains, whereas during the aging of polyvinyltoluene, the process is cross-linking, and (2) the main oxidation products of polystyrene are aromatic ketones, whereas the oxidation of polyvinyltoluene produces chiefly aromatic aldehydes. Chemical mechanisms

Card 1/2

L 2272-56

ACCESSION NR: AP5022228

are proposed to explain both types of these types of behavior. Orig. art. has:
9 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: ME, OP

NO REF SOV: 005

OTHER: 004

Card

2/2

DP

KIRILLOVA, E.I.; MATVEYEVA, Ye.N.; ZAVITAYEVA, I.D.; GLOGOLEV, Yu.A.;
LEYTMEN, K.A.; FRATKINA, G.P.

Studying the physicochemical properties of shock-resistant
polystyrenes during aging. Plast. massy no.2:43-45 '66.
(MIRA 19:2)

L 20799-66 EWA(h)/EWP(j)/EWT(m)/T/EWA(1) IJP(c) RM

ACC NR: AP6005953

(A)

SOURCE CODE: UR/0191/66/000/002/0043/0045

AUTHORS: Kirillova, E. I.; Matveyeva, Ye. N.; Zavitayeva, L. D.; Glagoleva, Yu. A.; Leytman, K. A.; Fratkina, G. P.

ORG: none

TITLE: A study of the physicochemical properties of impact-resistant polystyrenes during aging

SOURCE: Plasticheskiye massy, no. 2, 1966, 43-45

TOPIC TAGS: polystyrene, light aging, thermal aging, impact strength, elongation, hydroxyl group, polymer/ UP-1 polystyrene, UPP-2 polystyrene, PS-SU polystyrene, SNP-2 polystyrene

ABSTRACT: The changes in the physicochemical properties of impact-resistant polystyrenes UP-1, UPP-2, PS-SU₂, PS-SU₃, and SNP-2 during thermal, light, and atmospheric aging are studied. Accelerated light aging was done under a PRK-4 lamp. Thermal aging was done in a thermostat at 60C with sampling every 500, 1000, 2000, and 3000 hrs. Light aging greatly changed the specific impact strength and somewhat changed the specific elongation (see Fig. 1).

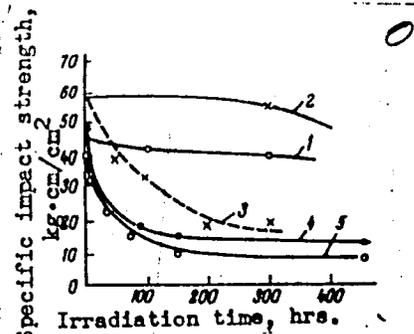
Card 1/3

UDC: 678.746.22--13:678.029.72:0.1:539.3

L 20799-66

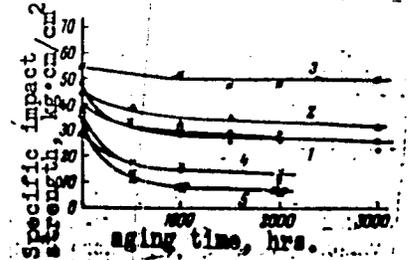
ACC NR: AP6005953

Fig. 1. Change in specific impact strength with irradiation: 1 and 2 - SNP; 3 - SNP (irradiation at 50-60C); 4 - UPP-2 with TiO₂ filler; 5 - UPP-2 without filler.



The SNP-2 was practically unchanged by thermal aging, while the other polystyrenes were affected more (see Fig. 2).

Fig. 2. Change in specific impact strength with prolonged heat aging at 60C; 1 - UPP-2 without filler; 2 - UP-1; 3 - SNP; 4 - PS-SU₃; 5 - PS-SU₂.



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L 20799-66

ACC NR: AP6005953

Ultraviolet rays and increased temperatures affect polystyrenes by reducing the specific impact strength and specific elongation and lead to the formation of carbonyl and hydroxyl groups with a simultaneous decrease in the number of double bonds. The study of aging of impact-resistant polystyrenes is being continued. Orig. art. has: 10 graphs.

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 006

Card 3/3 *lt*

FRATKINA, N. N.

CA

PROCESSES AND PROPERTIES INDEX

Coffee preserve. M. A. Humyanov, N. S. Fratkina, and N. A. Krasovskaya. U.S.S.R. 66,602, July 31, 1960. This prepn. comprises ground coffee approx. 23, nut meats 76, and saccharin approx. 0.2%. It contains up to 10% fats and up to 25% proteins and is a nutritious food. M. Hosh

12

ASB-55A METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

COMMON SYMBOLS

OPEN

MATERIALS INDEX

ALPHABETIC

NUMERICAL

SYMBOLIC

ALPHABETIC

NUMERICAL

SYMBOLIC

15.8.000

39635

S/191/62/000/000/001/013
B124/B150

AUTHORS: Kirillova, E. I., Matveyeva, Ye. N., Zavitayeva, L. D.,
Pratkina, G. P., Obol'yaninova, N. A.

TITLE: Aging of polystyrene plastics. Thermal aging of styrene -
acrylonitrile copolymers

PERIODICAL: Plasticheskiye massy, no. 6, 1962, 3-10

TEXT: Thermal aging of styrene - acrylonitrile copolymers CH-10 (SN-10) (10.6% acrylonitrile groups), CH-20 (SN-20) (20.15 and 21.4% acrylonitrile groups, molecular weight 113,000 and 119,000), and also CH-25 (SN-25) (29.55, 26.5, and 27.7% acrylonitrile groups, molecular weight 168,000, 120,000, and 132,000) was investigated on films 50-100 μ thick between 140 and 180°C, and compared with that of polystyrene films. For the copolymers, dichloro ethane was used as solvent and petroleum ether as precipitant, with benzene and ethyl alcohol for the polystyrene. The molecular weights were calculated from the viscosimetric data of L. N. Veselovskaya. The degree of aging was estimated on the basis of the measured intrinsic viscosity, the nitrogen content, and the carbonyl group
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X

Aging of polystyrene plastics. ...

S/191/62/000/006/001/013
E124/E180

formation determined by absorption spectrometry. The rate of formation of oxygen-containing groups falls as the acrylonitrile content in the copolymer rises, and also with its molecular weight (Fig. 8). It is 2-3 times greater in polystyrene than in the SN-26 copolymer. Azomethines with one OH group were effective stabilizers in ortho- and para-position in aniline and one NH_2 group in para-position only. Azomethine obtained by introducing the group $(\text{CH}_3)_2\text{N}$ in benzaldehyde proved to be inefficient while the same compound with one OH group in aniline was highly effective. Azomethines based on salicyl aldehyde and hydroxy aniline are also good stabilizers. All azomethines discolor the product and are only recommended for black products. Effective alkyl phenols are phenyl cresylol propane, phenyl isopropyl resorcin, phenyl isopropyl pyrocatechin, 3-methyl-4-phenyl ethyl-6-isopropyl phenol, 3-methyl-4-phenyl isopropyl-6-isopropyl phenol, butyl gallate, bis-[2-tert-butyl-4-methyl phenol]-methane. Extension of the carbon chain between two benzene rings does not greatly affect the stabilizing effect while the latter is increased by introducing a CH_3 group in the benzene ring in the case of dimethyl phenyl-p-cresol and dicresylol propane. There are 11 figures

Card 2/3

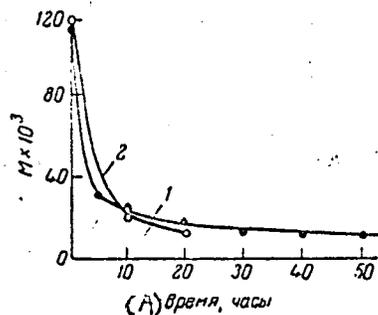
S/191/62/000/008/001/013
B124/E180

Aging of polystyrene plastics. ...

and 5 tables. The three English-language references are: S. L. Madorsky, S. Straus, Ind. Eng. Chem. 40, 848 (1948); H. H. G. Ellinek, J. Polymer Sci. 3, 850 (1948); 4, No. 1 (1949); M. J. Reiney, H. Tryon, B. G. Ackhammer, J. Res. Nat. Bur. Stand. 51, No. 3, 155 (1953).

Fig. 6. Change of molecular weight in thermal aging: (1) SN-20; (2) SN-28.

Legend: (A) time, hrs.



Card 3/3

FRATKINA, Z. G.

The Second All-Union Conference on the Preparation and Analysis of High-Purity Elements, held on 24-28 December 1963 at Gorky State University im. N. I. Lobachevskiy, was sponsored by the Institute of Chemistry of the Gorky State University, the Physicochemical and Technological Department for Inorganic Materials of the Academy of Sciences USSR, and the Gorky Section of the All-Union Chemical Society im. D. I. Mendeleev. The opening address was made by Academician N. M. Zhavoronkov. Some 90 papers were presented, among them the following:

V. T. Chuyko, A. I. Gayrilyuk, and I. V. Negrebets'ka: Coprecipitation of traces (Ni, Cd) with iron hydroxide.

Z. G. Fratkina and V. S. Shebunin. Spectrochemical analysis of metal impurities concentrated as volatile fluorides.

(Zhur ANAL Khim, 19 No.6, 1964 p.777-79)

FRATRIC, Ignac, ins.

Determining some characteristics of canals with bed overgrown by plants. Vodohosp cas 10 no.4:348-355 '62.

1. Ceskoslovenska akademie ved, Ustav hydrologie a hydrauliky Slovenskej akademie vied, Bratislava.

ROMANIA

Stancu, Ilie, Engr.

Vol #7

Bucharest, Telecomunicatii, No 6, Nov-Dec 63, pp 255-259

"Study of an Intermediate Frequency Amplifier with Transistors."
(Paper presented to the Meeting on Technical and Scientific
Communications of the Electronica Plant, held on 29 to 30
June 1963.)

S/058/62/000/003/015/092
A061/A101

AUTHOR: Fratzscher, W.

TITLE: The main exergy equation and its application to combustion phenomenon

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1962, 26, abstract 3A259
("Wiss. Z. Techn. Hochschule Dresden", 1961, v. 10, no. 2, 253-256.
German)

TEXT: The concept of exergy, serving to generalize the concept of enthalpy for irreversible processes, is introduced with the aid of the 2nd law, written in form of a balance using the entropy increment due to irreversible processes. The main exergy equation is written in the differential and integral forms. Different limiting cases are considered. At zero temperature of the medium serving as thermostat, the main equation becomes equivalent to the 1st law. At infinitely high temperature, it is equivalent to the 2nd law. At a random finite temperature, the main equation is the union of the two laws, and expresses the principle of exergy decrease. The introduction of absolute exergy with the aid of absolute entropy and absolute enthalpy makes it possible to examine, in

Card 1/2

The main exergy equation and its application ...

S/058/62/000/003/015/092

A061/A101

addition to physical changes, the changes in chemical composition, and to interpret the maximum work of a chemical reaction in terms of absolute exergy. The maximum possible work of combustion of coal and crude oil is calculated.

A. Filyukov

[Abstracter's note: Complete translation]

Card 2/2

PEREDY, Sandor; MONATH, Lajos; RAPELIUS, Karl (Leipzig); CALLENBERG, Waldemar (Leipzig); LIPKA, Ceslav (Praha); FREIBERGER, Rudolf, dr. ing. (Praha); SCHENKEL, Gerhard, dr. ing. (Karlsruhe); MIKULSKI, Jan, dr. ing. (Katowice); FRATZSCHER, Wolfgang, dr. ing. (Drezda); BENEDEK, Istvan; CUKOR, Gyorgy; SAGI, Marton; SCVARY, Emil; NAGY, Csaba (Roman Népkoztársasag); ELEFTERESCU, M. (Roman Népkoztársasag); KOVACS, Istvan (Roman Népkoztársasag); LAZAR, Peter, dr.; MEJRO, Cz., prof. (Varsó); KOKOVAY, Janos, dr.; SCHAEFER, Helmuth, dr. ing. (Karlsruhe); BORBAS, Nandor; GRUHN, Gunther, Dipl. ing. (Drezda); SZABO, Bendeguz; GYORI, Attila; MOLNAR, Laszlo; RECZEY, Gusztav, dr.

Determination and application of specific power utilization indexes. Ipari energia 3 no.1/2:15-22 Ja-F '62.

1. Koho- es Gepipari Miniszterium Ipargazdasagi es Uzemszervezesi Intezete (for Peredy).
2. Obudai Hajogyar (for Monath).
3. Orszagos Energiagazdalkodasi Hatosag (for Benedek and Reczey).
4. Magyar Tudomanyos Akademia Kozgazdasagtudomanyi Intezete (for Cukor and Sagi).
5. Eromu Tervezo Iroda (for Sovary).
6. Konnyuipari Miniszterium (for Kokovay).
7. Voros Csillag Traktorgyar (for Borbas).
8. Kobanyai Muanyaggyar (for Szabo).
9. Koho- es Gepipari Miniszterium Energiacsztaly (for Molnar).

APR 28 1965 EWT(m)/EPF(o)/EPF(n)-1/ENG(m) 1965
ACCESSION NR: AP9016356

GE 1025 65/00/03/0162/0167

26
B

AUTHOR: Fratzcher, W.; Stephan, H.

TITLE: Determination of the economical number of evaporators for the cooling water make-up of pressurized water reactors

SOURCE: Kernenergie, no. 3, 1965, 162-167

TOPIC TAGS: water cooled reactor, nuclear reactor technology

ABSTRACT: For the continuous water coolant make-up of pressurized water reactors by means of evaporator systems, a method of determining the economic number of evaporators is given for direct current circuit, which has respect to the features of continuous water make-up occurring by reason of the existence of a given temperature gradient and the necessity of holding the active wastes in storage. Orig. art. has 4 figures, 15 formulas, and 2 graphs.

ASSOCIATION: Arbeitsgruppe Kernenergetik der TU, Dresden (Research Group for Nuclear Energy, TU)

UNCLASSIFIED: 8 Aug 64

ENCL: 00

SITE CODE: NP

UNCLASSIFIED: 000

OTHER: 002

NA

FRANCHI, V. KH.

35456. V Khirurgicheskoy anatomii limfaticheskikh vzlov zheludka. Tudy
Sev.-Uset. gos. med. in-ta, 'yp. 4, 1949, s. 5-14.--bibliogr: 10 nazl.

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva. 1949

FRAUCHI, V. KH.

35457. O tonyayshem kvovosnabzhenii cherepnomozgovykh nervov. Trudy Ser.-
Oset. gos. med. in-ta, vyp. 4, 1949, s. 15-17

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

FRUMBT, V. KP

36402. O zheludochno-podzheludochnykh svyazkakh i novoy klassifikatsii svyazochnogo apparata zheludka. Khirurgiya, 1949, No. 11. S. 23-30

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

USSR/ Human and Animal Morphology - Lymphatic System. S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101500

Author : Frauchi, V. Kh.
Inst : North Osetin Medical Institute
Title : Lymphatic-Venous Anastomoses and the Problem of Metastasis.

Orig Pub : Tr. Sev.-Osetinsk. med. in-ta, 1957, Vol. 6, 5-46.

Abstract : The laminar preparation method revealed the presence of lymphatic-venous anastomoses (LVA) in 25 of 50 cadavers. The frequency of such a finding increased with progressive improvement in the technique of demonstrating them, and such LVA were found in 9 of the final 10 of the cadavers. It is probable that LVA exist constantly in man, most often at the level from T11 to C3. The diameter

Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610019-6

USSR / Human and Animal Morphology - Lymphatic System. S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101500

of the LVA reaches 1-3 mm. The actual existence of the LVA is confirmed by findings on the ontogenesis of the lymphatic system, which is laid down along with venous system, and by the findings of comparative anatomy of this system. The physiologic significance of the LVA consists in the withdrawal of a considerable portion of the lymph into the venous system, and in creating the conditions for the growth of the collateral lymph circulation and for the sucking action of the venous system on the lymph, which facilitates circulation of the lymph. The LVA favor the spreading of metastases of malignant tumors and infections by the lymphatic-hematogenous route. Bibliography of 103 titles. -- A. I. Braude

Card 2/2

FRAUCHI, V. Kh.

USSR / Human and Animal Morphology (Normal and Pathological).
Lymphatic System.

S

Abs Jour : Ref Zhur - Biol, No 21, 1958, No 97116
Author : Frauchi, V. Kh.
Inst : North Ossetian Medical Institute
Title : On the Morphology of the Human Thoracic Duct.
Orig Pub : Tr. Sev.-Osetinsk. med. in-ta, 6, 57-77

Abstract : On cadavers of 23 females and 27 males aged from 20-70 years, the following basic variations of the thoracic duct (TD) were established: mono-magistral form (52% of cases) - TD monolithic, unpaired; bi-magistral form (8%) - TD is paired, bi-symmetrical; looped form (40%) - TD has a transitory character between the two preceding forms. Lympho-receptors may be: reticular (4% of cases), spindle-shaped (12%), ampullar unicamerate (32%), ampullaro-reticular unicamerate (26%), ampullaro-reticular bicamerate (8%) and ampullaro-reticular multi-locular (18%).

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USSR / Human and Animal Morphology (Normal and Pathological).
Lymphatic System.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413610019-6

S

Abs Jour : Ref Zhur - Biol, No 21, 1958, No 97116

From Lisitsin's lymphatic arch, the arch of high position was discovered in 14% of cases, of low - in 31%, and of middle - in 55%.

Card 2/2

FRAUCHI, V. Kh.

USSR / Human and Animal Morphology (Normal and Pathological).
Cardiovascular System.

S

Abs Jour : Ref Zhur - Biol., No 21, 1958, No 97091

and hemiazygos veins has the greatest significance.
However, this path is by far not always feasible, since
ascending lumbar veins were discovered in 34% of cases.

Card 2/2

USSR / Human and Animal Morphology (Normal and Patho- S-1
logical). General Problems.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78979.

Author : Frauchi, V. Kh.

Inst : Not given.

Title : On the Principles for the Synthesis of the Teach-
ing of Topographical Anatomy and Operative Sur-
gery.

Orig Pub: Tr. Sev.-Osetinsk. med. in-ta, 1957, 6, 168-177.

Abstract: No abstract.

Card 1/1

FRAUCHI, V.Kh.

Further study of the problem of lymphovenous anastomoses.
Nauch. trudy Kaz. gos. med. inst. 14:315-317 '64. (MIRA 18:9)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii
(zav. - prof. V.Kh.Frauchi) Kazanskogo meditsinskogo instituta.

FRAUNER, J.

Medical climatology in Croatia. p. 1.
(Vasiona, Vol. 5, No.1/2, Jan/June 1956, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl/

H. FRAY
RUMANIA / Chemical Technology, Chemical Products and Their
Application. Part 4, - Cellulose and Its Deriva-
tives, Paper.

H-32

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 13216.
Author : H. Fray.
Inst : Not given
Title : Manufacturing of Concentrate Containing Considerable Amount
of Organic Substances from Waste Lyes by Precipitation.
Orig Pub : Celuloza si hitrtie, 1957, 6, No 1, 22 - 25.
Abstract : The precipitation is carried out with Ca(OH)_2 under
pressure. The manufactured concentrate contains about 60%
of organic substances; it can be utilized as fuel by pulp
factories and as material for the fabrication of fertilizers
and plastics. It is recommended to carry out pilot-plant
experiments.

Card 1/1

ROMANIA/Chemical Technology. Chemical Products and Their Uses. Part IV. Cellulose and Its Derivatives. Paper. H

Abs Jour : Ref Zhur-Khiniya, No 15, 1958, 52311

Author : Moscu, V., Fray, H.

Inst : -

Title : Improvement of Draft Cellulose Quality for the Production of Paper Bags.

Orig Pub : Celluloza si hirtie, 1957, 6, No 3, 90-93

Abstract : Improvement was attained by increasing the sulfite content of alkali digester, and by changing the conditions of digestion. -- From the author's resume.

Card : 1/1

158

COUNTRY:	: Romania	H-5
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 5 1960, No.	18520
AUTHOR	: Pitis, I., Patrascioiu, R., and Fray, H.	
INST.	: Not given	
TITLE	: Study on Slaughterhouse Wastes with a View Towards the Establishment of Treatment Methods	
ORIG. PUB.	: Ind Aliment Prod Anim, 7, No 1, 7-10 (1959)	
ABSTRACT	: The authors have studied the wastes from a number of slaughterhouses. The average characteristics of the wastes are as follows: pH 7.0-7.1, methyl red alkalinity 8.4- 9.3 epm, NH ₃ , 40 mg/liter, fats 98-98 mg/liter. The optimal doses of FeCl ₃ required for the chemical treatment of these wastes vary from 215 to 507 mg/liter. When simultaneous treatment with FeCl ₃ and CaO is used, the consumption of these materials is 150-160 and 105 mg/liter, respectively. The lowering in the concen-	

CARD: 1/2

COUNTRY : Rumania H-9
CARTON :
ANS. JOUR. : RZKhim., No. 5 1960, No. 18520
AUTHOR :
INST. :
TITLE :
ORIS. PUB. :
ABSTRACT : tration of suspended solids following treatment with FeCl₃ is 27% as against 77% when simultaneous treatment with FeCl₃ and CaO is practiced; the concentration of organic soluble salts is reduced by 42 and 18%, respectively; oxygen demand is reduced by 72 and 52%, respectively. For complete purification, the authors recommend that the wastes be subjected to biochemical treatment after chemical treatment.

Ya. Matlis

CARD: 2/2

227

USTYANOVICHOVA, A. [Ustyjanovicova, A.]; FRAY, V. [Frei, V.]

Preparation and properties of sodium borate tartrate. Zhur.
neorg. khim. 9 no.2:251-258 F'64. (MIRA 17:2)

1. Kafedra neorganicheskoy khimii Karlov universitet, Praga,
Chekhoslovakiya.

FRAY, V.; USTYANOVICHOVA, A.

Behavior of a borate ion in a solution. Zhur. fiz. khim. 37
no.5:1153-1156 My '63. (MIRA 17:1)

1. Kafedra neorganicheskoy khimii Karlov universitet, Praga
Chekhoslovakiya.

FRAY, V. [Fret, V.]; PODLAGOVA, Ya. [Podlahova, J.]; PODLAGA, Ya.
[Podlaha, J.]

Zinc phosphites. Zhur. neorg. khim. 10 no.7:1690-1694 J1 '65.
(MIRA 18:8)

1. Institut neorganicheskoy khimii, Karlov universitet, Praga,
Chekhoslovakiya.

DOLGINOV, Sh.Sh.; ZHUZGOV, L.N.; PUSHKOV, N.V.; TYURMINA, L.O.;
FRAYAZINOV, I.V.

Some results of measuring the constant magnetic field of the
earth over the U.S.S.R. from the third artificial satellite.
Geomag.1 aer. 2 no.6:1061-1075 N-D '62. (MIRA 16:1)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya
radiovoln AN SSSR.
(Magnetism, Terrestrial) (Artificial satellites)

FRAYBERG, G.; KUNDIRENKO, Z. [translator]

Meeting with okapi. Znan. ta pratsia no.6:20-22 Je '61.
(MIRA 16:8)

FRAYBERG, S. M.

Jul 50

USSR/Minerals - Ores, Barium
Chemistry - Analysis, Ores

"Determination of Lead in Barium-Containing Ores and in Products of Their Beneficiation," S. Yu. Faynber, L. B. Zaychikova, S. M. Frayberg, State Inst of Nonferrous Metals

"Zavod Lab" Vol XVI, No 7, pp 771-774

Suggests volumetric method for determining lead in ores containing barium in form of heavy spar and witherite. Method, based on precipitation of lead chromate from nitric acid medium, also may be applied to ores which contain no barium at all. Method is almost as quick as most rapid known method (Alexander's method). In cases of small quantities of lead, determination by this method is more precise than that by Alexander's method.

166T87

ZELENKOV, Georgiy Ivanovich, kand.tekhn.nauk, dotsent; KRIVSHIN, Aleksandr Pavlovich, kand.tekhn.nauk, dotsent; FRAYENOV, Pavel Semenovich, kand.tekhn.nauk, dotsent; DEKHTERINSKIY, Lev Vladimirovich, kand.tekhn.nauk, dotsent; VOSKRESENSKIY, N.N., red.; STEPANOV, V.M., red.izd-va; DONSKAYA, G.D., tekhn.red.

[Principles of designing repair shops and repair of road machinery]
Remont dorozhnykh mashin i osnovy proektirovaniia remontnykh predpriiatii. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 500 p. (MIRA 14:6)
(Road machinery—Repairing)

FRAYER, B.

Defended his Dissertation for Candidate of Technical Sciences in the Kharkov Polytechnical Institute, Khar'kov, 1953

Dissertation: "Investigation of the Effect of Composition of Compound Catalysts on the Activity and Specificity of Their Action in the Hydrogenation of Sunflower Oil"

SO: Referativnyy Zhurnal Khimii, No. 1, Oct. 1953 (W/29955, 26 Apr 54)

TYUTYUNNIKOV, B. N.; FRAYER, B.

Hydrogenation

Research in the field of fat hydrogenation. Masl. -zhir. prom. 18, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

TYUTYUNNIKOV, B. N.; FRAYER, B.

Hydrogenation

What constitutes selectivity in the process of fat hydrogenation. Masl. -zhir.
prom. 18, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

TYUTYUNNIKOV, B.N.; FRAYER, B.

Simplified method of characterization of catalyst activity. Maslo-
boyno Zhirovaya Prom. 18, No.3, 10-11 '53. (MLRA 6:3)
(CA 47 no.14:7241 '53)

1. Kharkov Polytech. Inst.

FRAYER, B.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Fats, Fatty Oils, Waxes, and Detergents

6
③

The activity of complex catalysts used for the hydrogenation of fats and on the specificity of their action. B. N. Tyutyunnikov and B. Prater (Polytech. Inst., Kharkov). *Maslobolno-Zhirovaya Prom.* 18, No. 10, 12-13 (1953).— The activity (I) of Ni catalyst was increased when charcoals, TiO₂, and diatomaceous earth were used as supports, whereas Cr₂O₃ and Ca₃(PO)₄ reduced I. Among the metals studied, only Cu (8 and 25%) appreciably augmented I. A large amt. of Co (25%) suppressed I, and a small amt. (5%) improved it slightly. The neg. effect of Fe diminished somewhat with its content, while Mn lowered I abruptly. No direct relationship exists between the changes in I of Ni and selectivity of its action. As I of supported and mixed catalysts (II) increased, lesser amts. of isoleic acids formed during the hydrogenation process. Vladimir N. Kravkovsky.

Frucht, S.

Machine-Tractor Stations

Some questions of tractor brigade organization in the non-chernozem region machine tractor stations. Sots. sel'.khoz. 23, no. 6, 1952.

MONTHLY LIST OF RUSSIAN ACQUISITIONS, DEPARTMENT OF AGRICULTURE, SEPTEMBER 1952. UNCLASSIFIED.

FRANER, S. V.

Prigorednaia Knizhnytsa [Knizhnytsa near King'sarpp]. Moskva, Sel'khozgiz,
1954. 175 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 Mar. 1954.

FRAYER, S.L., kandidat sel'skokhozyaystvennykh nauk.

Removing stones from a field. Gidr. 1 mel. 6 no.12:48-53 D '54.
(Clearing of land) (MIRA 8:1)

FRAYER, S.V.

TERENT'YEV, M.L.; OSAD'KO, M.P.; BRAGINSKIY, B.I.; SLOBODIN, V.M.; FISHMAN,
Z.A.; LEVIN, I.Ye.; TSYNKOV, M.Yu.; BADIR'YAN, G.G.; TYUTIN, V.A.;
ABRAMOV, V.A.; FRAYER, S.V.; KOBCHIKOVA, I.A.; KARNAUKHOVA, Ye.I.;
OBOLENSKIY, K.P.; IL'IN, S.A.; GAVRILOV, V.I.; FREYDMAN, S.M.;
KALASHNIKOVA, V.S., redaktor; LAPIDUS, M.A., redaktor; RAKITINA,
Ye.D., redaktor; FEDOTOVA, A.F., tekhnicheskij redaktor

[Manual for students of collective farm economy] V pomoshch'
izuchaiushchim ekonomiku kolkhozov. Moskva, Gos. izd-vo selkhoz.
lit-ry, 1956. 423 p. (MIRA 10:1)
(Collective farms)

BADAR'YAN, G.G.; TYUTIN, V.A.; CHEREKUSHKIN, S.D.; ZUZIK, D.T.;
KHODASEVICH, B.G.; FLAYER, S.V.; GUSAROV, Ye.I.; KAZANSKIY,
A.M.; KASSIROV, L.N.; KARAYEV, S.A.; AMANOV, V.A.;
VASIL'YEV, N.V.; BUGAYEV, N.F.; SAPIL'NIKOV, N.G.; KASTORIN,
A.A.; RUDNIKOV, V.N.; YAKOVLEV, V.A.; PEREMYKIN, V.I.;
ISAYEV, A.P.; KUZ'MICHEV, N.N.; IL'IN, S.A.; PRONIN, V.A.;
LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'-
khoz. nauk; KOGAN, A.Ya.; TSYNKOV, M.Yu.; BABIY, L.T.;
GORBUNOV, I.I.; KOVALEV, A.M.; ROMANCHENKO, G.R.; BRODSKAYA,
M.L., red.; IVANOVA, A.N., red.; GUREVICH, M.M., tekhn. red.;
TRUKHINA, O.N., tekhn. red.

[Economics of agriculture] Ekonomika sotsialisticheskogo sel'-
skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962.
710 p. (MIRA 15:10)

(Agriculture—Economic aspects)

ALTAYSKIY, I.P., kand. sel'khoz. nauk; CHESHKOV, A.F., kand. ekon. nauk; MALIN, A.S., kand. ekon. nauk [deceased]; BOROVSKIY, V.A., kand. ekon. nauk; AREF'YEV, T.I., kand. ekon. nauk; GLINYANYI, V.G., kand. ekon. nauk; FRAYER, S.V., kand. sel'khoz. nauk; VINTAYKIN, Z.P., kand. ekon. nauk; DUDOROV, I.T., kand. ekon. nauk; BUSAROV, N.A., kand. sel'khoz. nauk; LUK'YANOV, A.D., kand. sel'khoz. nauk; RAKITINA, Ye.D., red.; SOKOLOVA, N.N., tekhn. red.

[Production brigades on collective and state farms] Proizvodstvennye brigady v kolkhozakh i sovkhozakh. Moskva, Sel'khozizdat, 1963. 374 p. (MIRA 17:1)
(Farm management)

TYUTYUNNIKOV, B. N.; FRAYER, V.

Catalysis

Simplified method for the characteristics of catalytic activity. Masl. - zhir.
prom. 18, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

~~FRAERMAN~~, R. I.

FRAERMAN, R. I. and P. ZAIKIN. Zhizn' i neobyknovennye prikliucheniia kapitan-leitenanta Golovnina, puteshestvennika i morekhodtsa. v. I. Moskva, Voen. izd., 1946. 280 p.
DLC: Unclass.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

FRAERMAN, R.I.

FRAERMAN, R. I. Plavaniia V.M. Golovkina; pod red. N. N. Zubova. Moskva, Geografiz, 1948. 116 p. DLC: Unclass.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

FRAYERMAN, Puvim Isayevich; ZAYKIN, Pavel Dmitriyevich; BOGINA, A.V.,
redaktor; SRIBNIG, N.V., tekhnicheskiy redaktor

[Life and unusual adventures of Lieutenant Commander Golovnin,
traveler and seafarer] Zhizn' i neobyknovennye priklucheniia kapitan-
leitenanta Golovnina, puteshestvennika i morekhodtsa. Moskva, Voen.
izd-vo M-va obor. SSSR, 1957. 543 p. (MLRA 10:6)
(Golovnin, Vasilii Mikhailovich, 1776-1831)

FRAYFEL'D

see also FREYFEL'D

FRAYFEL'D, A.Y.
KRESIN, YANOV, M.Ye., dotsent, kandidat tekhnicheskikh nauk; FRAYFEL'D, A.Y., dotsent, kandidat tekhnicheskikh nauk.

Some problems in systematizing unit norms of electric power consumption used in electric traction systems. Trudy MEMIIT no.63:65-84 '53.
(Electric railroads) (MLRA 7:12)

^F
FRAYVEL'D, A.V., dotsent, kandidat tekhnicheskikh nauk; KREST'YANOV, M.Ye.,
dotsent, kandidat tekhnicheskikh nauk.

Diagram of an automatic parallel connection of the contact network
for double-track electric railroads. Trudy MEMIIT no.63:85-94 '53.
(Electric railroads--Wires and wiring) (MLRA 7:12)

FRAYFEL'D, A.V., dotsent, kandidat tekhnicheskikh nauk.

Allowing for voltage imbalance in open-circuit conditions of
traction substations when making calculations for power supply
substations. Trudy MIIT no.90/13:112-121 '56. (MLRA 10:4)
(Electric Railroads--Substations)

FRAYFEL'D, A.V., dotsent, kandidat tekhnicheskikh nauk

Problem of heat calculation for feeder cables of direct current
feeder cable entrances and jumper cables between traction or
combines substations of the subway. Trudy MIIT no.90/13:181-191
'56. (MLRA 10:4)

(Electric railroads--Substations)

FRAYFEL'D, A.V., kand.tekhn.nauk

Unsolved problems in designing railroad contact networks. Zhel.
dor. transp. 40 no.9:30-33 S '58. (MIRA 11:10)
(Electric railroads--Wires and wiring)

VLASOV, Ivan Ivanovich, doktor tekhn.nauk; PORSHNEV, Boris Georgiyevich, inzh.; FRAYFEL'D, Aleksandr Vladimirovich, kand.tekhn.nauk; Prini-mali uchastiye: GOROSHKOV, Yu.I., kand.tekhn.nauk; BARANOVA, M.A., inzh.; MAZURSKIY, E.M., inzh., retsenzent; SIDOROV, N.I., inzh., red.; VERINA, G.P., tekhn.red.

[Designing the contact network of electric railroads] Proskti-rovanie kontaktnoi seti elektrifitsirovannykh zheleznykh dorog. Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 299 p. (MIRA 12:10)
(Electric railroads--Wires and wiring)

FRAYFEL'D, A.V., kand.tekhn.nauk

Selecting parameters for compensated chain hangers of electric railroads. Transp.stroi. 9 no.10:40-43 0 '59.
(MIRA 13:2)

(Electric railroads--Wires and wiring)

FRAYFEL'D, A.V., dotsent, kand.tokhn.nauk

Selection of basic parameters for intermediate contact network poles used for simultaneous suspension of 35 kv. power transmission lines and remote control lines in a system of distributed feeding. Trudy MIIT no.104:256-271 '59. (MIRA 12:9)
(Electric railroads--Wires and wiring)
(Electric lines--Poles)

FRAYFELD, A.V., dotsent, kand.tekhn.nauk

Simplified method for determining tension in the carrying cable
in order to determine the maximum allowable wind deflection
span lengths between contact network poles. Trudy MIIT no.104:
272-281 '59. (MIRA 12:9)
(Electric railroads--Wires and wiring)
(Electric lines--Poles)

FRAYFEL'D, Aleksandr Vladimirovich, kand. tekhn. nauk; MARKOV, Aleksandr
Sergeyevich, inzh.; TYURNIN, Georgiy Aleksandrovich, inzh.;
MARGOLIS, S.M., inzh., retsenzent; BOEROVA, Ye.N., tekhn. red.

[Design, installation, and operation of a contact network]
Ustroistvo, montazh i ekspluatatsiia kontaktnoi seti. Pod ob-
shchei red. A.V.Fraifel'da. Moskva, Transzheldorizdat, 1962.
411 p. (MIRA 15:7)
(Electric networks) (Electric railroads)

VLASOV, Ivan Ivanovich, doktor tekhn. nauk; PORSHNEV, Boris
Georgiyevich, inzh.; FRAYFEL'D, Aleksandr Vladimirovich,
kand. tekhn. nauk; BARANOVA, M.A., inzh.

[Design of the contact networks of electrified railroads]
Proektirovanie kontaktnoi seti elektrifitsirovannykh zhe-
leznykh dorog. 2., perer. i dop. izd. Moskva, Izd-vo
"Transport," 1964. 328 p. (MIRA 17:6)

FLINK, Yu.V., dotsent, kand.tekhn.nauk; FRAYFEL'D, A.V., dotsent, kand.tekhn.
nauk; ENGEL'S, G.G., inzh.

Design of semicompensated circuit suspensions with spring wires.
Trudy MIIT no.199:120-129 '65.

(MIRA 18:8)

FRAYFEL'D, A.V., dotsent, kand.tekhn.nauk

Choice of the parameters of spring wires of single compensated
circuit suspensions in straight track sectors. Trudy MIIT
no.199:130-138 '65. (MIRA 18:8)

MIKHEYEV, Viktor Petrovich; KARPOV, Aleksandr Petrovich;
FRAYFEL'D, A.V., red.

[Contact network supports and foundations; work
practices of the collective of the Western Siberia
Railroad] Opory i fundamenty kontaktnoi seti; opyt
raboty kollektiva Zapadno-Sibirskoi zheleznoi dorogi.
Moskva, Transport, 1965. 63 p. (MIRA 18:12)

PANOV, V.I.; FRAYFEL'D, E.L.

Angioarchitectonics of the stomach in peptic ulcer, in ulcerated cancer, and in cancer developed from an ulcer. Khirurgiia 32 no.6:16-18 Je '56. (MLRA 9:10)

1. Iz kafedry anatomii (zav. - prof. A.P.Lyubomudrov) i kafedry patologicheskoy anatomii (zav. - prof. Ye.I.Pal'chevskiy) L'vovskogo meditsinskogo instituta.

(PEPTIC ULCER

angioarchitectonics of stomach in peptic ulcer, ulcerated cancer & in cancer developed from ulcer)

(STOMACH, neoplasms

angioarchitectonics of stomach in ulcerated cancer & in cancer developed from ulcer)

FRAYFEL'D, E.L. (L'vov, Sevastopol'skaya ul. d.5, kv. 6.)

Arteries supplying the extracranial mandibular nerve and its branches
in man. Arkh.anat. gist. i embr. 33 no.2:65 Ap-Je '56. (MLRA 9:10)

1. Iz kafedry normal'noy anatomii (zav. prof. A.P.Iyuhomudrov)
L'vovskogo meditsinskogo instituta.

(NERVES, MANDIBULAR, blood supply,
arteries supplying extracranial mandibular nerve &
its branches (Rus))

LYUBOMUDROV, A.P. (L'vov. Pekarskaya, d.52, kv. 30); GONCHARENKO, Ye.I.
(L'vov. Pogulyanka, d. 41, kv. 5); FRAYFEL'D, E.L. (L'vov, ul.
Sevastopol'skaya, d. 5, kv. 6)

Method of making preparations of the brain. Arkh.anat. gist. 33
no.2:84-87 Ap-Je '56. (MLRA 9:10)

1. Iz kafedry normal'noy anatomii (zav. prof. A.P.Lyubomudrov)
L'vovskogo meditsinskogo instituta
(BRAIN, anatomy and histology,
histol. prep. (Rus))

LYUBOMUDROV, A.P. (L'vov, ul. Fizkul'turnaya, d.24), PAL'CHEVSKIY, Ye.I.
PANOV, V.I., PLASTUNOV, M.B., FRAYFEL'D, E.L.

Angioarchitectonics of the kidney following disease and its
clinical significance. Nov.khir.arkh. no.2:3-8 Mr-Apr '58 (MIRA 11:6)

1. Kafedra anatomii (zav. - prof. A.P. Lyubomudrov), kafedra patolo-
gicheskoy anatomii (zav. prof. Ye.I. Pal'chevskiy) i klinika urologii
(zav. - dots. M.B. Plastunov) L'vovskogo meditsinskogo instituta.
(KIDNEYS---BLOOD SUPPLY)

Circulatory System. Blood Vessels.

Abs Jour : Ref Zhur Biol., No 23, 1958, 105951

Author : Lyubomudrov, A.P., Panov, V.I., Fraydel'd, E.L.

Inst : Lvov Oblast Scientific Association of Anatomists, Histologists and Embryologists.

Title : Roentgenological Data on Blood Vessels of the Hydronephrotic Kidney

Orig Pub : Sb. nauchn. rabot. L'vovsk. obl. nauchn. o-va anatomov, gistol. i embriol., 1958, vyp. I, 9-11

Abstract : The left ureter was ligated in 22 rabbits. After 5 to 514 days the blood vessels of the kidney (K) were studied by the method of supravital injection (through the abdominal aorta) of contrast medium, and by x-ray examination. The changes of the vessels depend on the

Card 1/2

USSR/Human and Animal Morphology - Normal and Pathological
 Circulatory System. Blood Vessels.

Abs Jour : Ref Zhur Biol., No 23, 1958, 105951

duration of the experiment. Two to two and a half months after the ligation of the ureter the interlobar arteries (IA) are elongated most because of the maximal enlargement of the hydronephrotic K in this period. The direction of the IA and the arcuate arteries was straight, which contradicts the point of view of tortuosity of the latter in hydronephrosis (H). The lessening of the caliber of the IA and also the thinning of the cortical substance of the kidney was observed. Its thickness after two weeks was 1.5 mm (as against 3 mm in the normal) and after 6-12 months, 0.2-0.8 mm; the thinning was irregular. The general vascular pattern of the K in the roentgenological visualization corresponds to the experimental H and H in man.

Card 2/2

FRAYFEL'D, Ye. L.

USSR / Human and Animal Morphology (Normal and Pathological). S
Cardiovascular System.

Abs Jour : Ref Zhur - Biol., No 21, 1958, No 97096

Author : Panov, V.I.; Frayfel'd, Ye. L.

Inst : Lvov Oblast Scientific Society of Anatomists, Histologists
and Embryologists

Title : Blood Supply of the Vermiform Process in Conditions of
Collateral Blood Circulation.

Orig Pub : Sb. nauchn. rabot L'vovsk. obl. nauchn. o-vo anatomov,
gistol. i embriol., 1958, vyp.1, 31-36

Abstract : It was shown in experiments on 25 rabbits that exclusion
of the appendicular artery (AA) only, or together with
several of its lateral branches which run to the vermiform
process (VP), does not lead to the death of the VP. Blood
supply of VP is then realized by collateral paths, which
connect AA with the intestinal artery through the intramural
vessels of the segment of the ileum adjoining VP. Exclusion

Card 1/2

USSR / Human and Animal Morphology, (Normal and Pathological). S
Cardiovascular System.

Abs Jour : Ref Zhur - Biol., No 21, 1958, No 97096

of AA and all of its lateral branches which run to VP
or all of its branches which run to the segment of the
ileum adjoining the VP, leads to gangrene of VP. This
proves that the intramural vessels of the cecum cannot
assure restoration of the blood supply of VP.

Card 2/2

ORLII, V.A.; PANOV, V.I.; FRAYFEL'D, E.L.

Clinical aspects and angioarchitectonics of gastric lipoma; abstract.
Khirurgia 34 no.12:97 D '58. (MIRA 12:1)

1. Iz kafedry gosspital'noy khirurgii (zav. - prof. L.N. Kuzmenko) kafedry normal'noy anatomii (zav. - prof. A.P. Lyubomudrov) i kafedry patologicheskoy anatomii (zav. - prof. Ye. I. Pal'chevskiy) L'vovskogo meditsinskogo instituta.

(STOMACH--TUMORS)

PANOV, V.I.; PLASTUNOV, M.B.; FRAYFEL'D, E.L.

Vascular structure of the testis in tuberculosis. Urologiia 24
no.5:24-26 S-0 '59. (MIRA 12:12)

1. Iz kafedry anatomii (zav. - prof. A.P. Lyubomudrov) i urologicheskoy
kliniki (zav. - dots. M.B. Plastunov) L'vovskogo meditsinskogo instituta.
(TUBERCULOSIS MALE GENITAL pathol.)

KACHOROVSKIY, B.V. (L'vov, ul. Chaykovskogo, d.16, kv.4); PANOV, V.I.;
~~FRAYFEL'D, B.L.~~

Chronic ileitis. Vest.khir. 83 no.12:90-93 D '59. (MIRA 13:5)

1. Iz kliniki obshchey khirurgii (zav. - prof. G.P. Kovtunovich)
i kafedry normal'noy anatomii (zav. - prof. A.P. Lyubomudrov)
L'vovskogo meditsinskogo instituta.
(ILEITIS REGIONAL)

PANOV, V.I.; FRAYFELD, *E.L.*

Angiostructure of the stomach in glandular cancer and in certain
benign tumors; roentgeno-anatomical investigations. Vop.onk. 6
no.2:30-33 F '60. (MIRA 14:2)

(STOMACH--TUMORS)

LYUBOMUDROV, A.P.; PANOV, V.I.; FRAYFEL'D, E.L.; YAMPOL'SKAYA, S.A.

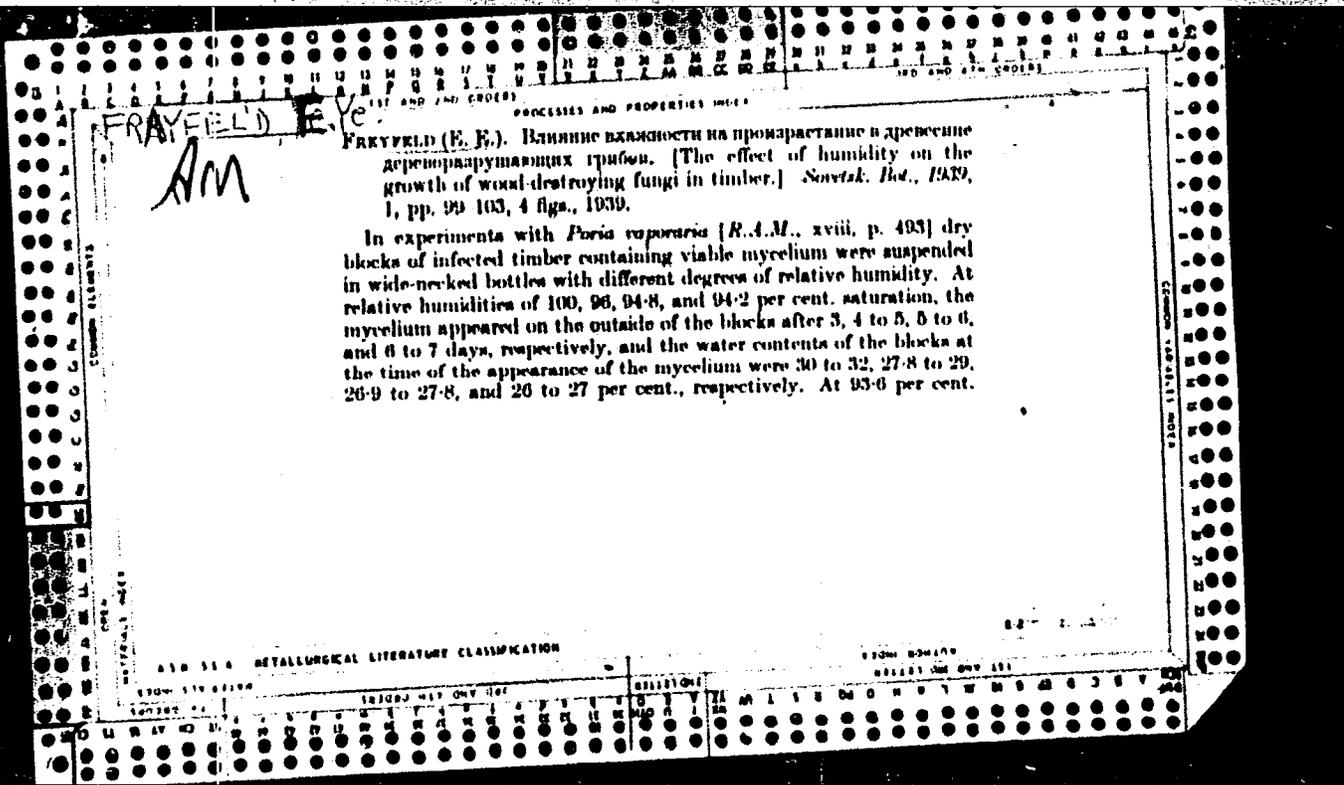
X-ray picture of the architectonics of heart arteries in coronary atherosclerosis and myocardial infarctions. Nauch.trudy L'vov. obl.terap.ob-va no.1:136-142 '61. (MIRA 16:5)

1. Kafedra normal'noy anatomii L'vovskogo meditsinskogo instituta (zav. kafedroy - prof. A.P. Lyubomudrov) i kafedra patologicheskoy anatomii (zav. kafedroy - prof. Ye.I. Pal'chevskiy).
(ANGIOCARDIOGRAPHY) (CORONARY HEART DISEASE
(HEART--INFARCTION)

PANOV, V.I.; FRAYFEL'D, E.L.

Angioarchitectonics of diffuse forms of cancer of the pyloric
section of the stomach. Vop.onk. 7 no.8:12-15 '61. (MIRA 15:1)

1. Iz kafedry normal'noy anatomii (zav. - prof. A.P. Lyubomirov)
L'vovskogo meditsinskogo instituta.
(PYLORUS—CANCER)



relative humidity the water content of the blocks reached 25 per cent., but no mycelial growth was observed. When blocks of healthy dry timber were suspended in bottles some distance above blocks with well-developed mycelium or pure cultures of *P. vaporaria* the hyphae invariably grew towards the healthy timber in whatever direction it was placed, and spread over it, the water content of the healthy block having by then risen to between 30 and 31 per cent. In a relative humidity of 96 per cent. the mycelium spread from the diseased to healthy timber when the water content of the latter had reached 28 per cent., but attempts to induce infection on timber with a lower water content proved unsuccessful. It is concluded from these results that the minimum water content for the growth of the mycelium of *P. vaporaria* in infected timber is 26 per cent., and that healthy timber can be infected by *P. vaporaria* when its water content is 96 per cent. relative humidity is not lower than 28 per cent.

FRAYFEL'D, E. YE

USSR /Chemical Technology. Chemical Products
and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31630

Author : Yevsiyevich S.M., Frayfel'd E. Ye.

Title : Use of the New Tar-Lime Plasticizer DI-YuzhNII.

Orig Pub: Byul. stroit. tekhniki, 1954, No 5, 12

Abstract: Plasticizer DI-YuzhNII is recommended for use to enhance the plasticity of plaster. The plasticizer is made from ground quicklime (or lime paste) and clarified pine tar. Amount of plasticizer used is 0.2-0.3% of the weight of sand in the mix.

Card 1/1

FRAYFEL'DA, E.Ye.

Tax soap as a plasticizer for mortars. Rats. i izobr.predl.v stroi.
no.137:11-12 '56. (MIRA 9:9)
(Mortar) (Soap)

FRAYFEL'D, B. Ye.

Dependence of heat conductivity of lightweight concretes on the
coarseness of fillers. Stroi.prom. 36 no.4:27-28 Av '59.
(Lightweight concrete) (NIRA 11:4)
(Heat--Conduction)

FRAYFEL'D, E.Ye., mladshiy nauchnyy sotrudnik; LERNER, L.K.

Limestone from the Izyum deposits as aggregate for concretes. Sbor.
trud. IZHNI no.2:51-53 '59. (MIRA 13:9)

1. Yuzhnyy nauchno-issledovatel'skiy institut po stroitel'stvu.
(Limestone)

FRAYFEL'D, E.Ye.

"Doploporit," a heat insulating material developed by the Southern Research Institute for Industrial Construction. Sbor. trud. IUZHNII no.2:126-128 '59. (MIRA 13:9)

1. Yuzhnyy nauchno-issledovatel'skiy institut po stroitel'stvu. (Insulation (Heat))

30(1)

SOV/25-59-2-47/48

AUTHOR: ~~Frayfel'd, F.~~ Research Assistant of the
Southern Scientific Research Institute of
Industrial Construction

TITLE: Wood-destroying Fungi (Griby - drevoraz-
rushiteli)

PERIODICAL: Nauka i zhizn', 1959, Nr 2, p 78-79 (USSR)

ABSTRACT: This article deals with experiments carried
out by the Southern Scientific Research In-
stitute of Industrial Construction, into means
to fight wood-destroying fungi. As was shown
by the research of the Ukrainian Academician
N.G. Kholodnyy, rotting residues in the soil,
such as decomposing wood and moist sawdust,
contain certain organic compounds, which in-
fluence the vital activity of the organism.
These substances stimulate and speed up the
growth of plants and prolong their life. The
experiments of the institute were carried out

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on white and spotted fungi in glass vessels closed with ground stoppers. The fungi were cultivated on a special agar-agar medium. A small piece of sound wood suspended on a wire and introduced into the glass brought about the following effect: the hyphae of the fungus, instead of spreading as usual over the inside of the vessel walls, concentrated beneath the wood, then spread upwards and reached the wood. One month later, one and a half wood laminae were rotted. Another experiment carried out on white fungi also gave interesting results. A piece of unsound wood was placed into a vessel of the aforementioned type. When the fungus developed and formed hypha threads, some pieces of slightly moistened, sound wood were laid on the stopper. All this was covered from above with a glass vessel. Some days later it was observed that the sound wood was

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affected by rot. The hyphae had penetrated through the gap between the stopper and the neck of the vessel. The experiments carried out by this and other institutes permitted the development of some methods of fighting dry rot. In addition to measures such as drying, etc. it is recommended to soak or spray timber with antiseptic solutions, such as 3% sodium fluoroide, 4% sodium dinitrophenolate and 5% sodium-pentachlorphenolate solutions. It is further recommended to spread over timber in contact with stone walls, a special paste containing sodium fluoride or sodium fluosilicate and calcined soda. Timber intended for ties is to be soaked under pressure with creosote and anthracene oils.

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